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Mad Maths

for 6 to 8 year olds

Book 1

Stimulating problem solving
activities for students aged
6 to 8 years.

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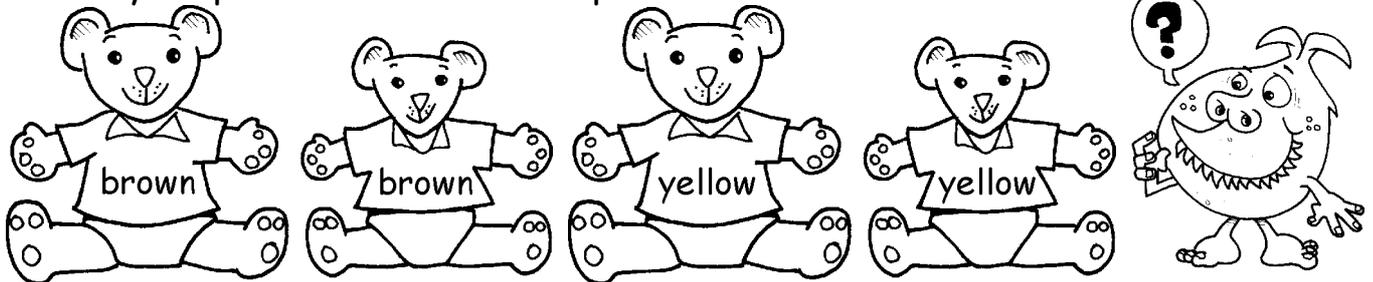
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Name: _____

Worksheet 2

Bonzo Monster has lots of teddy bears (he has twice as many bears as he has teeth). He has big bears and small bears and he likes yellow bears and brown bears best of all.

One day he put out his bears in a pattern like this ...

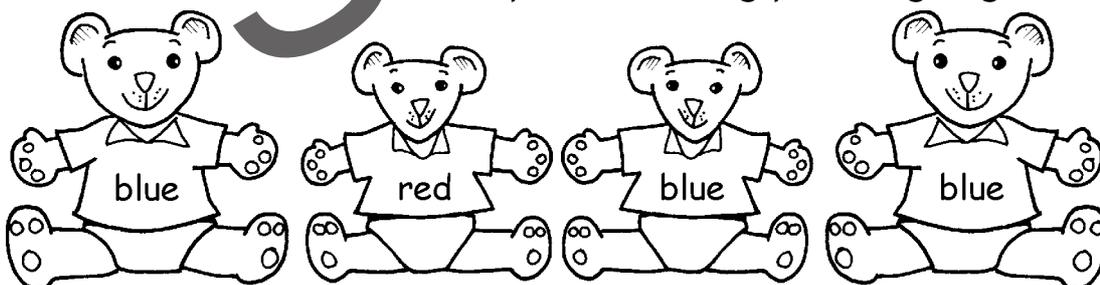


The only trouble was he couldn't think what bear to put next.

"These bears look like they are ready to start in a teddy bear race," said Bonzo. "To start a teddy bear race you have to say 'ready, teddy, go!'"
(Can you bear these weak jokes?)

Questions

1. If Bonzo has 15 teeth how many bears does he have? _____
2. How many bears would you have if you were Bonzo? _____
3. What are Bonzo's favourite colours? _____
4. Which bear would come next in the pattern above? _____
5. How many bears are in the pattern so far? _____
6. Draw the next bear to keep the following pattern going ...



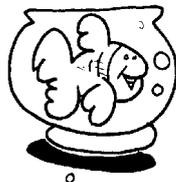
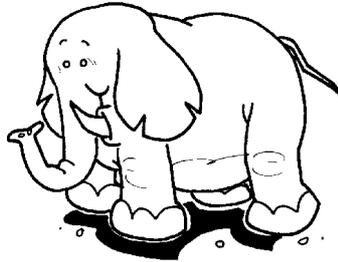
7. Use these colours and sizes to make your own pattern. (Draw it here.)

Madness

Draw a pattern with your favourite type of toys.

Name: _____

Worksheet 8



Pete, Pat and Pam all went to Ms Zoo's pet shop and bought a pet each. There were only three pets - an elephant, a cat and a goldfish. Pat bought the biggest pet he could find. Pete bought something to swim in the bath with him. Pam liked what was left over so she took that.

Pat said, "What time will it be if my pet tries to have a swim in the bath with me?"

No one knew.

"Time to get a new bath!"

Questions

1. What pet did Pete buy? _____
2. What pet did Pat buy? _____
3. What pet did Pam buy? _____
4. If Pam bought the elephant, what pet would Pat have to have?

5. If the pets cost more the bigger they got, which would be the most expensive? _____
6. If the goldfish cost \$3, how much would the cat cost if it was double that price? _____
What would the elephant cost if it was worth one hundred times the goldfish? _____
7. What names would you call these pets? _____

Madness

If you could have any pet (no matter what) what would you choose?
Draw it on the back of this sheet.

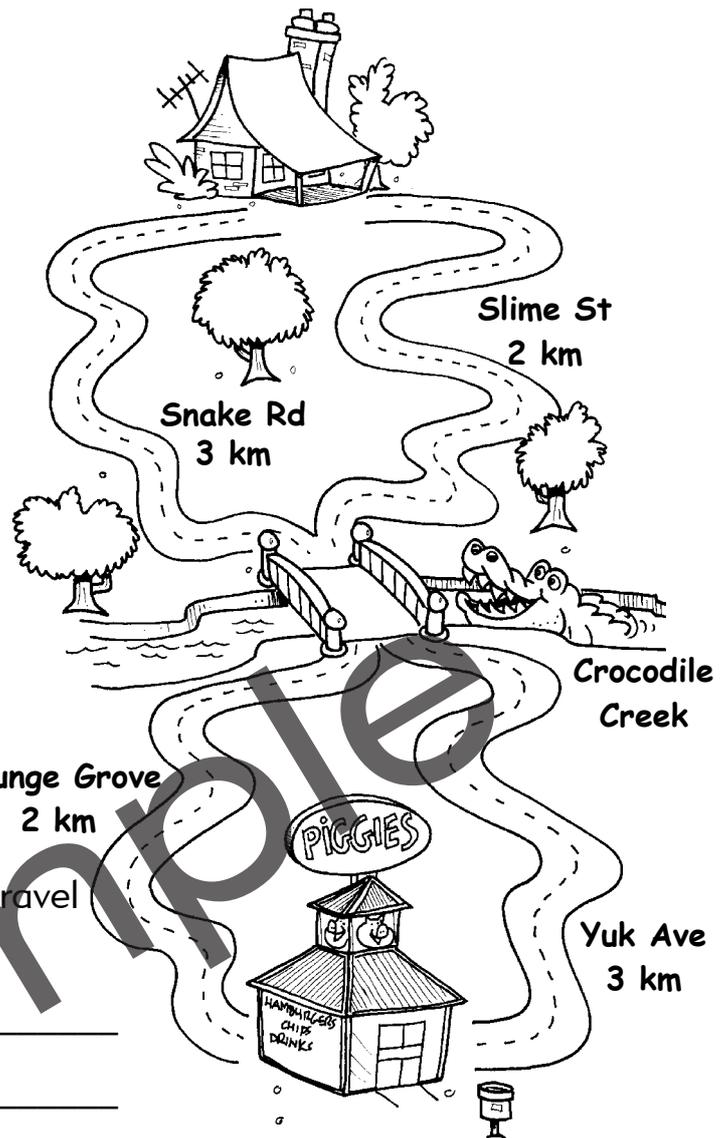
Name: _____

Worksheet 14

To go for a hamburger, the Rotten family can travel four different ways.

The hamburger place they go to is called 'Piggies' because of what people like the Rottens turn into when they eat there. After they buy their hamburgers the Rottens like to sit by the pool and watch the crocodiles play 'Snap!'

"I know what a crocodile would like in a hamburger," said Daddy Rotten. "... ME!"



Questions

1. What are the four ways you can travel from the Rottens' to Piggies?

2. What is the distance for each trip?

3. What is the shortest trip?

What is the longest trip?

4. If a new one kilometre long road (Blah Street) was built from the Rottens' to the bridge, what would be the shortest way to Piggies then? How far?

Madness

Make up a recipe or three for hamburgers for different animals or people ... like a Crocburger or a Rotten burger.

Name: _____

Worksheet 16

At Slug's Ice-cream Palace Slug has only three flavours to choose from ...

strawberry, worm or onion.

Slug sells triple, double and single scoops.

For some reason though, Slug only seems to sell one flavour in all his scoops.

I wonder why?

Single	50¢
Double	\$1.00
Triple	\$1.50



Questions

1. What would be the most favoured flavour? _____
Why? _____
2. What are the possible double scoop combinations? (You can have the same flavour twice.)

3. What are the possible triple scoop combinations? _____

4. What is the total number of different types of ice-creams you can have?

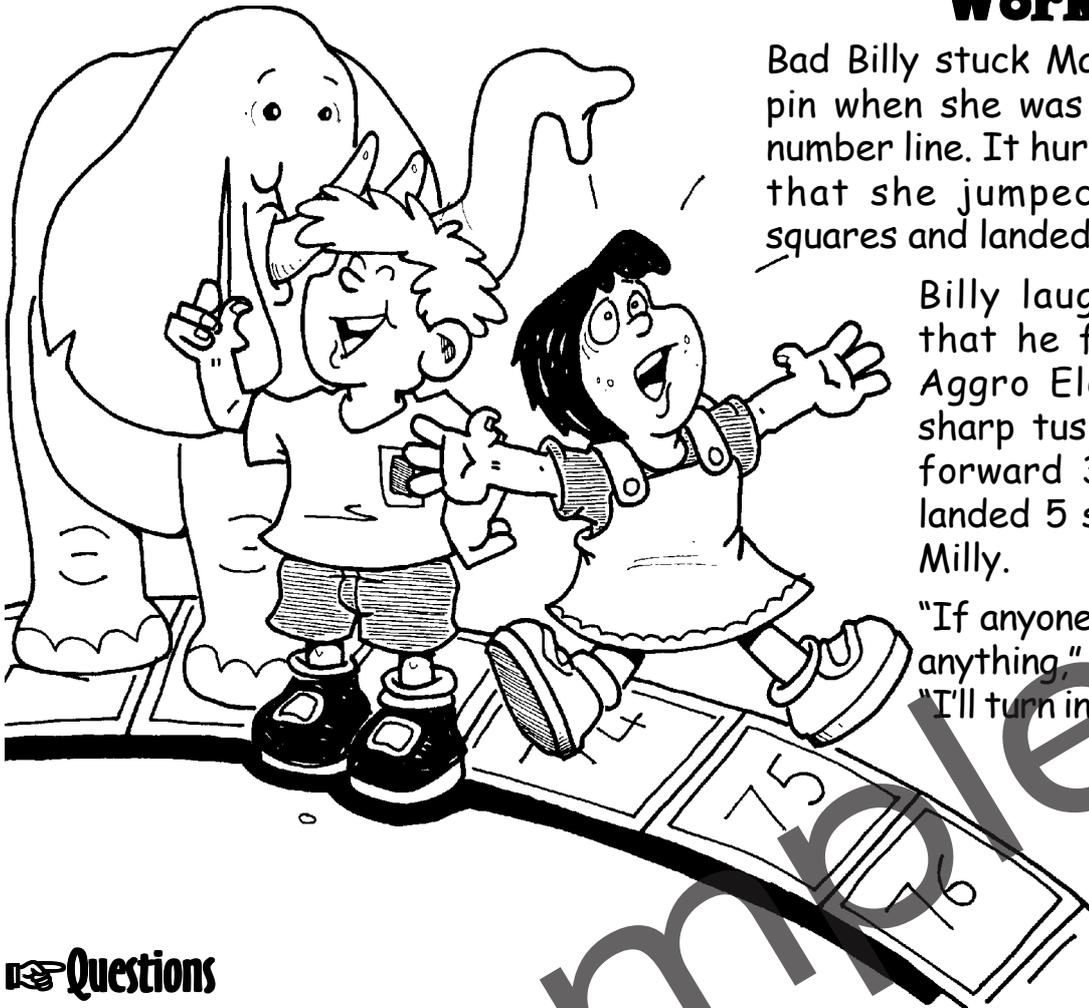
5. How much would one scoop cost? _____
6. If **snail** was added to the ice-cream flavours, how many different combinations would there be then, if you were allowed each flavour only once?

Madness

Think up some really good ice-cream flavours like steak and eggs ice-cream.
Draw up a flavour chart and price list.

Name: _____

Worksheet 27



Bad Billy stuck Mad Milly with a pin when she was standing on a number line. It hurt Milly so much that she jumped forward 22 squares and landed on number 94.

Billy laughed so much that he fell back onto Aggro Elephant's very sharp tusks. He jumped forward 30 spaces and landed 5 spots ahead of Milly.

"If anyone sticks me with anything," Aggro thought, "I'll turn into a jumbo jet."

Questions

1. What number was Milly standing on when Billy jabbed her? _____
2. Where was Billy when he sat on Aggro's tusks? _____
3. Where would Milly have landed if she had jumped backwards? _____
4. Where would Billy have landed if he had jumped backwards? _____
5. How many more squares did Billy jump than Milly? _____
6. What was the total number of squares jumped by Billy and Milly? _____
7. If Aggro was on number 35 and was stung by a bee and went forward 26 squares, which number would she land on? _____
8. If each square was two metres across how far would Aggro have travelled?

Madness

Find a flat space with plenty of room in front of you. Leave something to mark where you started and take a hundred large steps in a straight line. That is about how long a 100 metre number line is!